



US008381753B2

(12) **United States Patent**  
**Ranzoni**

(10) **Patent No.:** **US 8,381,753 B2**  
(45) **Date of Patent:** **Feb. 26, 2013**

(54) **METHOD FOR MAKING A SAFETY VALVE OF A BOILER OF A DEVICE FOR MAKING A HOT BEVERAGE, PARTICULARLY COFFEE, AND SAFETY VALVE**

(75) Inventor: **Francesco Ranzoni**, Coccaglio (IT)

(73) Assignee: **Bialetti Industrie S.p.A.**, Coccaglio (Brescia) (IT)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1060 days.

(21) Appl. No.: **11/663,027**

(22) PCT Filed: **Sep. 24, 2004**

(86) PCT No.: **PCT/IT2004/000522**

§ 371 (c)(1),

(2), (4) Date: **Jan. 18, 2008**

(87) PCT Pub. No.: **WO2006/033127**

PCT Pub. Date: **Mar. 30, 2006**

(65) **Prior Publication Data**

US 2008/0185054 A1 Aug. 7, 2008

(51) **Int. Cl.**

**F16K 27/00** (2006.01)

(52) **U.S. Cl.** ..... **137/15.18**; 137/540; 29/890.13

(58) **Field of Classification Search** ..... 137/543.23,  
137/543.21, 540, 542, 15.18; 29/890.122,  
29/890.13

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,069,153	A *	1/1937	Konkle	29/890.13
2,549,132	A *	4/1951	Robbiati	99/307
3,504,701	A	4/1970	Gross	
3,725,990	A *	4/1973	Petersen et al.	29/890.122
4,546,790	A *	10/1985	Huber et al.	137/315.19
5,174,327	A *	12/1992	Truax et al.	137/469
5,271,429	A	12/1993	Bauer et al.	
5,901,743	A *	5/1999	Schulz	137/515.5

OTHER PUBLICATIONS

International Search Report dated May 27, 2005 for International Patent Application No. PCT/IT2004/000522.

\* cited by examiner

*Primary Examiner* — Kevin Lee

*Assistant Examiner* — Macade Brown

(74) *Attorney, Agent, or Firm* — Hogan Lovells US LLP

(57) **ABSTRACT**

A safety valve of a boiler of a device for making hot beverages, particularly coffee, comprises an intermediate valve body, a plug and resilient means inserted into the seat of the intermediate valve body. The intermediate valve body comprises a peripheral wall designed to be folded over to define a reaction portion of the resilient means and positively press the plug, obtaining a final valve body. The peripheral wall partly closes off a first opening of the intermediate valve body and the plug partly projects from the final valve body.

**33 Claims, 3 Drawing Sheets**

